

SIP Publications with Tom Schneider

Thomas D. Schneider *

version = 1.04 of sippublications.tex 2012 Apr 05

This is a list of publications by students in the Werner H. Kirsten Student Intern Program.

- R. Mike Stephens [1, 2, 3]
- Nate Herman [4]
- Mark Shaner [5]
- Stacy Bartram [6]
- Elaine Buchheimer [7]
- Ryan Shultzaberger [8, 7, 9, 10, 11].
- Karen Lewis [12, 10].

References

- [1] T. D. Schneider and R. M. Stephens. Sequence logos: A new way to display consensus sequences. *Nucleic Acids Res.*, 18:6097–6100, 1990. <http://alum.mit.edu/www/toms/papers/logopaper/>.
- [2] R. M. Stephens and T. D. Schneider. Features of spliceosome evolution and function inferred from an analysis of the information at human splice sites. *J. Mol. Biol.*, 228:1124–1136, 1992. <http://alum.mit.edu/www/toms/papers/splice/>.
- [3] P. K. Rogan, J. J. Salvo, R. M. Stephens, and T. D. Schneider. Visual display of sequence conservation as an aid to taxonomic classification using PCR amplification. In Clifford A. Pickover, editor, *Visualizing Biological Information*, pages 21–32, Singapore, 1995. World Scientific.
- [4] N. D. Herman and T. D. Schneider. High information conservation implies that at least three proteins bind independently to F plasmid *incD* repeats. *J. Bacteriol.*, 174:3558–3560, 1992.

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- [5] M. C. Shaner, I. M. Blair, and T. D. Schneider. Sequence logos: A powerful, yet simple, tool. In T. N. Mudge, V. Milutinovic, and L. Hunter, editors, *Proceedings of the Twenty-Sixth Annual Hawaii International Conference on System Sciences, Volume 1: Architecture and Biotechnology Computing*, pages 813–821, Los Alamitos, CA, 1993. IEEE Computer Society Press. <http://alum.mit.edu/www/toms/papers/hawaii/>.
- [6] P. N. Hengen, S. L. Bartram, L. E. Stewart, and T. D. Schneider. Information analysis of Fis binding sites. *Nucleic Acids Res.*, 25(24):4994–5002, 1997. <http://alum.mit.edu/www/toms/papers/fisinfo/> ■ switch to **Hengen.Schneider-fisinfo1997**.
- [7] R. K. Shultzaberger, R. E. Buchheimer, K. E. Rudd, and T. D. Schneider. Anatomy of *Escherichia coli* Ribosome Binding Sites. *J. Mol. Biol.*, 313:215–228, 2001. <http://alum.mit.edu/www/toms/papers/flexrbs/>.
- [8] R. K. Shultzaberger and T. D. Schneider. Using sequence logos and information analysis of Lrp DNA binding sites to investigate discrepancies between natural selection and SELEX. *Nucleic Acids Res.*, 27:882–887, 1999.
- [9] R. K. Shultzaberger, L. R. Roberts, I. G. Lyakhov, I. A. Sidorov, A. G. Stephen, R. J. Fisher, and T. D. Schneider. Correlation between binding rate constants and individual information of *E. coli* Fis binding sites. *Nucleic Acids Res.*, 35:5275–5283, 2007. <http://alum.mit.edu/www/toms/papers/fisbc/> <http://dx.doi.org/10.1093/nar/gkm471>.
- [10] Z. Chen, K. A. Lewis, R. K. Shultzaberger, I. G. Lyakhov, M. Zheng, B. Doan, G. Storz, and T. D. Schneider. Discovery of Fur binding site clusters in *Escherichia coli* by information theory models. *Nucleic Acids Res.*, 35:6762–6777, 2007. <http://alum.mit.edu/www/toms/papers/fur/>.
- [11] R. K. Shultzaberger, Zehua Chen, Karen A. Lewis, and T. D. Schneider. Anatomy of *Escherichia coli* σ^{70} promoters. *Nucleic Acids Res.*, 35:771–788, 2007. <http://alum.mit.edu/www/toms/papers/flexprom/>.
- [12] M. Zheng, X. Wang, B. Doan, K. A. Lewis, T. D. Schneider, and G. Storz. Computation-Directed Identification of OxyR-DNA Binding Sites in *Escherichia coli*. *J. Bacteriol.*, 183:4571–4579, 2001.